

# Market Drivers for Quantitative Brain Function Imaging Devices 2026-2030: Regional Perspectives and Size Forecast

*The Business Research Company's  
Quantitative Brain Function Imaging  
Device Market Report 2026 – Market Size,  
Trends, And Global Forecast 2026-2035*

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/EINPresswire.com/ -- The [quantitative  
brain function imaging devices market](#)

is experiencing significant growth, driven by advances in neuroscience and a rising need for precise brain diagnostics. As neurological disorders become more prevalent, demand for accurate and objective brain monitoring technologies is growing rapidly. Let's explore the current market size, the factors fueling expansion, leading regions, and key trends shaping this evolving field.



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Quantitative Brain Function Imaging Device Market Size and Growth Prospects

The [quantitative brain function imaging device market growth](#) has shown strong growth in recent years. It is projected to increase from \$6.09 billion in 2025 to \$6.62 billion in 2026, reflecting a compound annual growth rate (CAGR) of 8.7%. This expansion during the past period can be linked to a rise in neurological disorders, more funding

for neuroscience research, increased hospital investments in imaging infrastructure, wider use of EEG and PET systems, and advancements in brain mapping technology.

Looking ahead, the market is expected to continue this upward trajectory, reaching \$9.3 billion by 2030 with a CAGR of 8.9%. Drivers for this growth include a greater demand for quantitative diagnostics, advances in precision neurology, increasing research into brain-computer interfaces, heightened need for mental health diagnostics, and growing investments in neurotechnology platforms. Notable trends emerging in this timeframe include the adoption of multimodal brain imaging, progress in functional brain mapping, the integration of sophisticated neuro-signal processing software, expanding applications in psychiatric diagnostics, and the development of



portable brain monitoring devices.

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### Understanding Quantitative Brain Function Imaging Devices

Quantitative brain function imaging devices are sophisticated medical diagnostic tools that objectively measure brain activity in numerical form rather than solely relying on visual images. These systems enable precise evaluation of brain functionality by leveraging advanced technologies such as functional MRI (fMRI), PET, SPECT, EEG, and near-infrared spectroscopy (fNIRS). They quantify crucial parameters like blood flow, oxygen metabolism, electrical activity, and neural connectivity, which assist in diagnosing, monitoring, and researching various neurological and psychiatric disorders.

### Key Drivers Fueling Growth in the Quantitative Brain Function Imaging Device Market

The growing incidence of neurological disorders is a major factor propelling the expansion of this market. Neurological disorders encompass conditions affecting the brain, spinal cord, or nerves that impair movement, sensation, cognition, or other bodily functions. An aging global population contributes significantly to the increasing prevalence of diseases such as Alzheimer's and Parkinson's, resulting in a heavier healthcare burden worldwide.

Quantitative brain function imaging devices provide objective and data-driven assessments of brain activity, facilitating earlier diagnosis, more accurate disease monitoring, and personalized treatment approaches. For example, in March 2023, the Alzheimer's Association, a US-based nonprofit, reported that 6.7 million Americans aged 65 and older are living with Alzheimer's, a number expected to rise to 13.8 million by 2060. This growing prevalence underscores the rising demand for these imaging devices.

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### Regional Market Leadership and Growth Patterns in Quantitative Brain Function Imaging Devices

In 2025, North America dominated the quantitative brain function imaging device market as the largest regional segment. However, Asia-Pacific is anticipated to be the fastest-growing region throughout the forecast period. The market analysis includes key regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of global developments in this sector.

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